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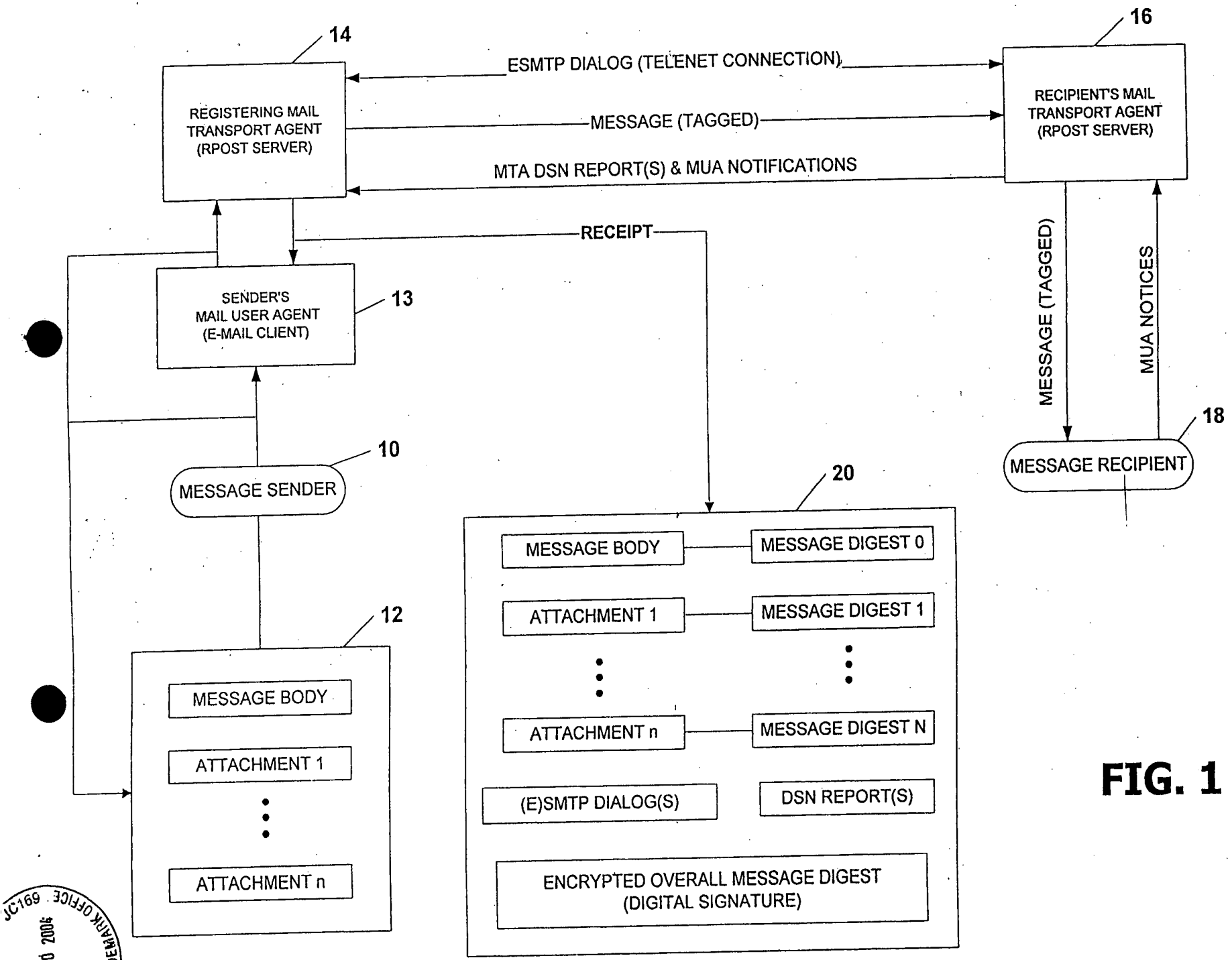


FIG. 1

JC169 APR 30 2004 PATENT & TRADEMARK OFFICE

FIG. 2A
Preprocessing

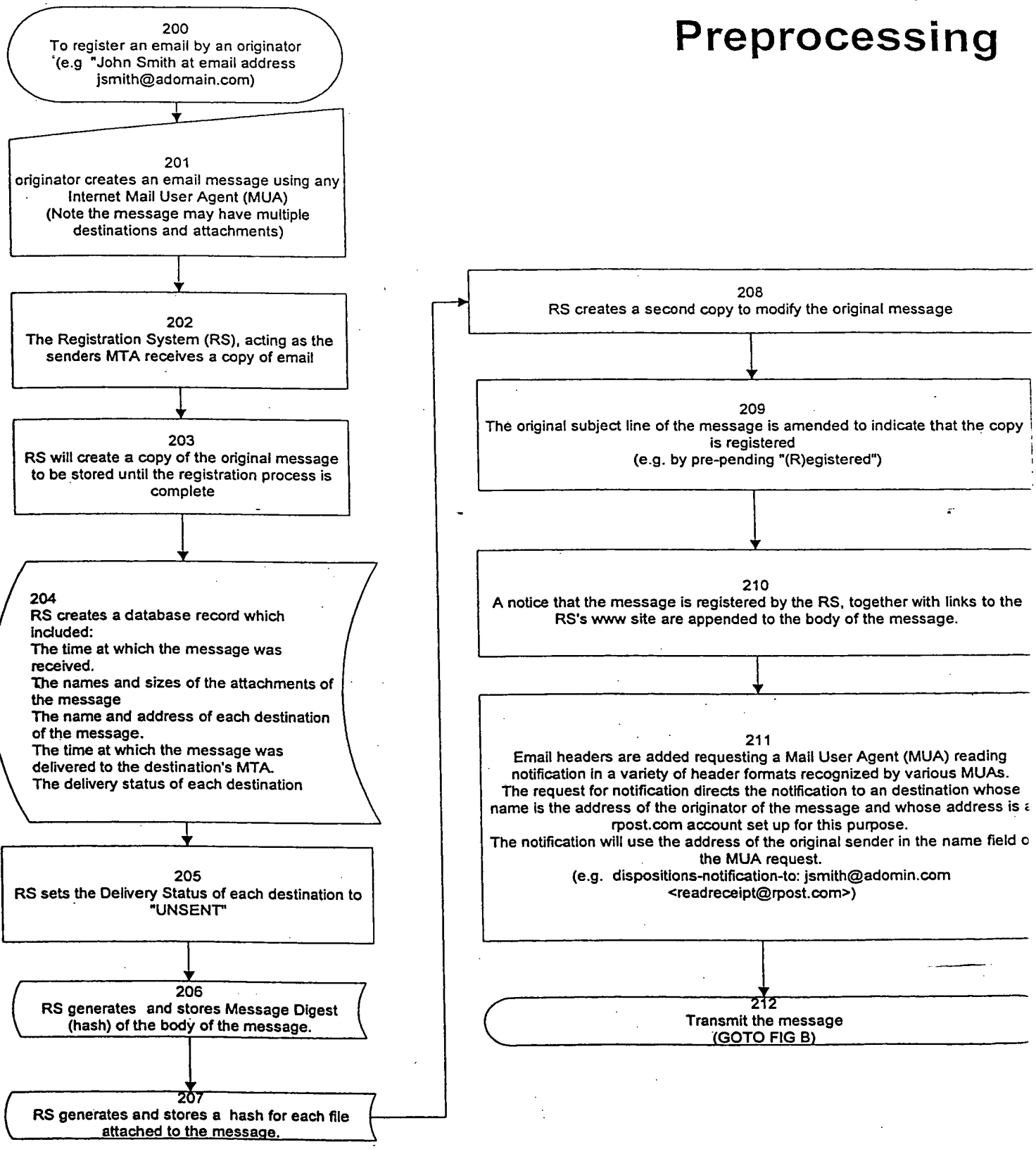


FIG. 2B
Transmission

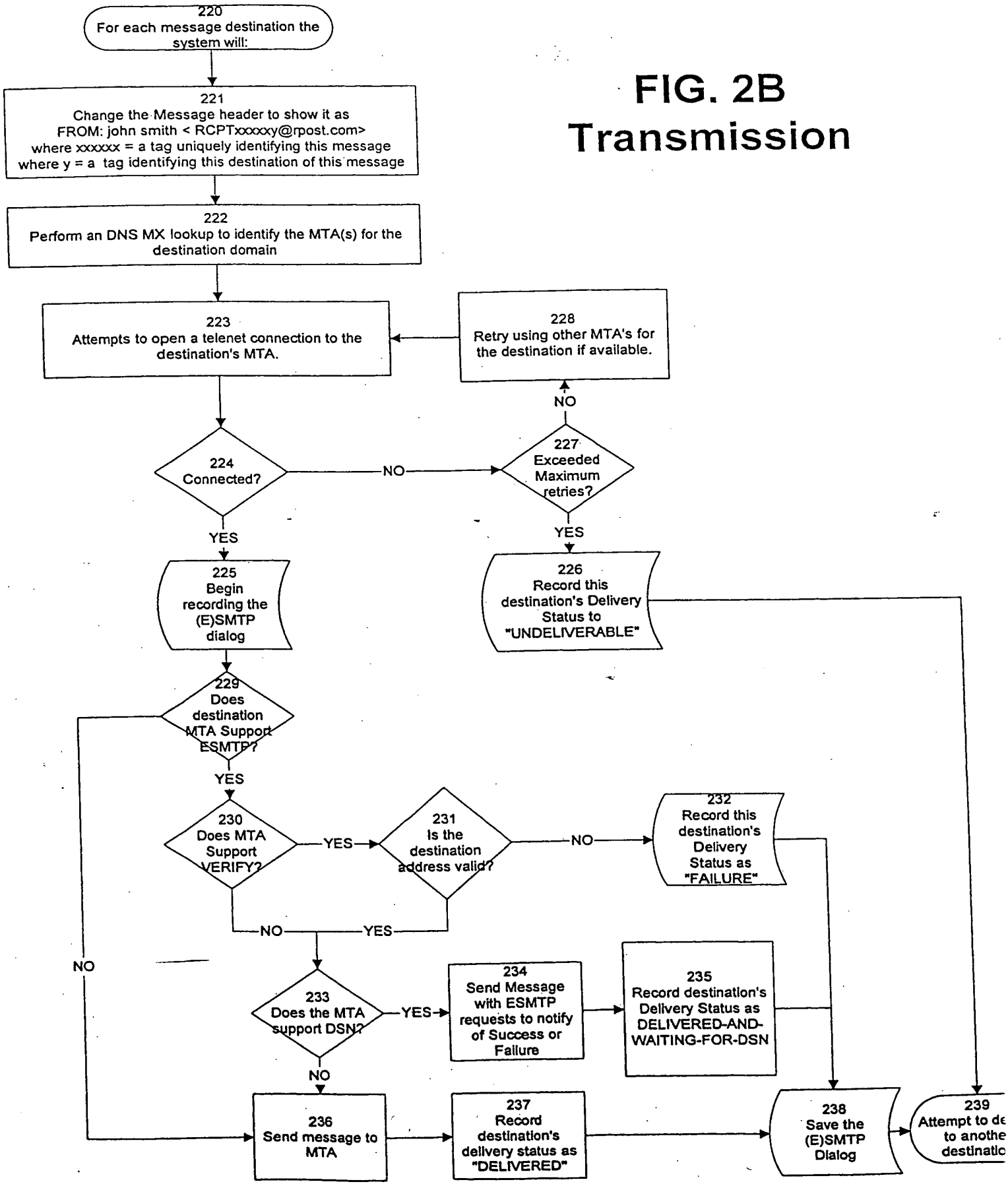


FIG. 2C
Post-Processing
Processing MTA Notifications

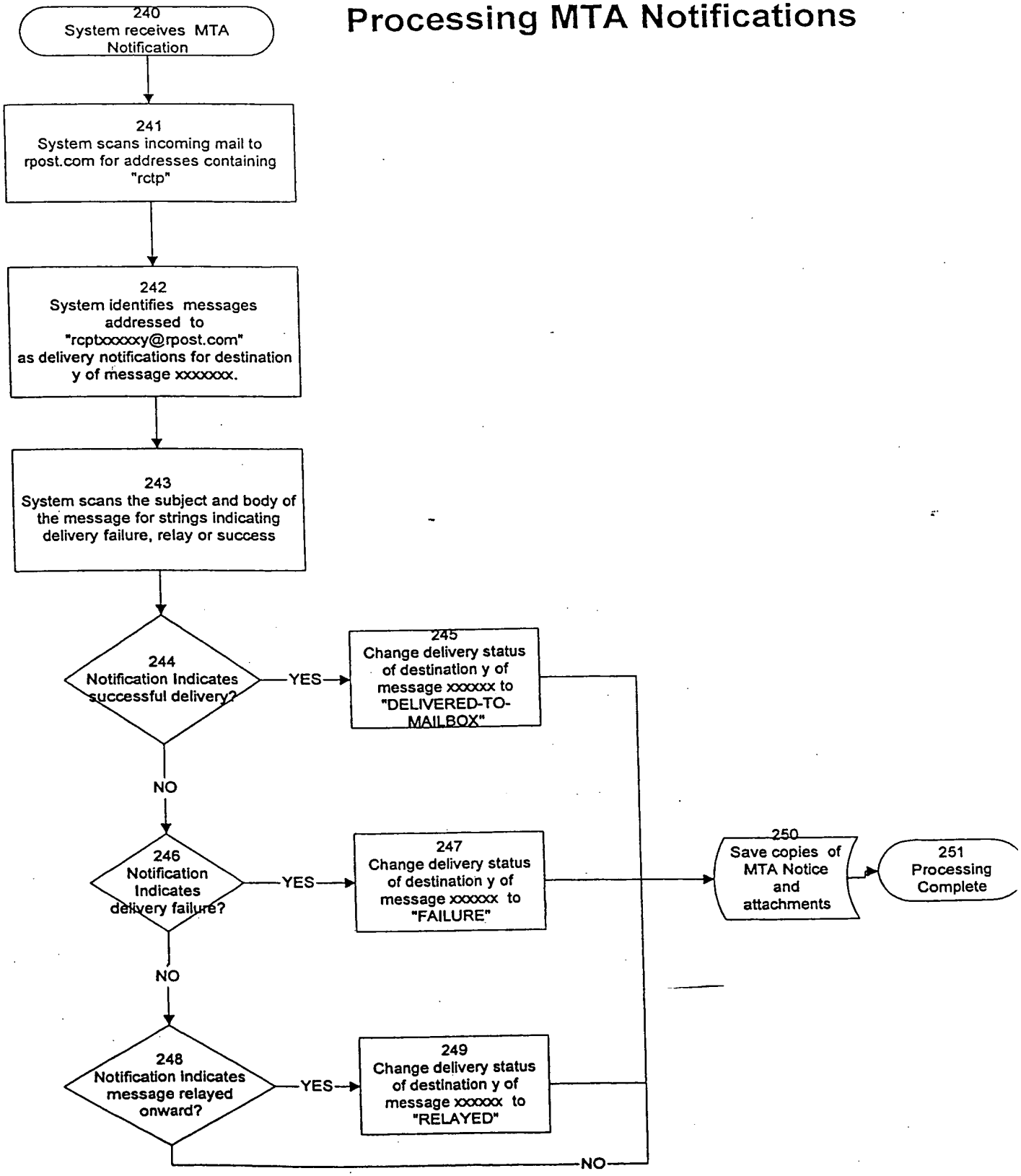


FIG. 2D
Post-Processing
Message Management

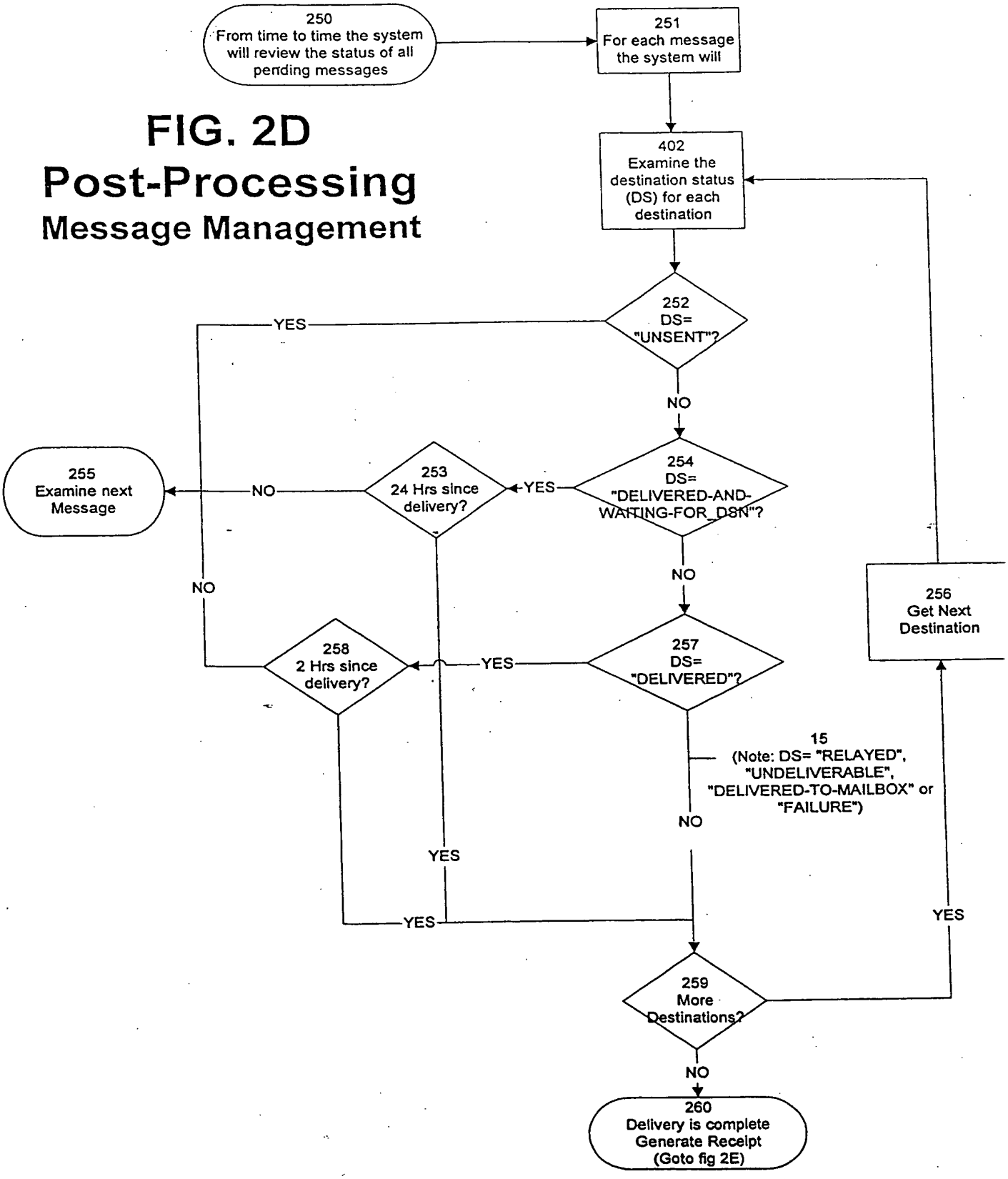


FIG. 2E
Post-Processing
Generate a Delivery Receipt

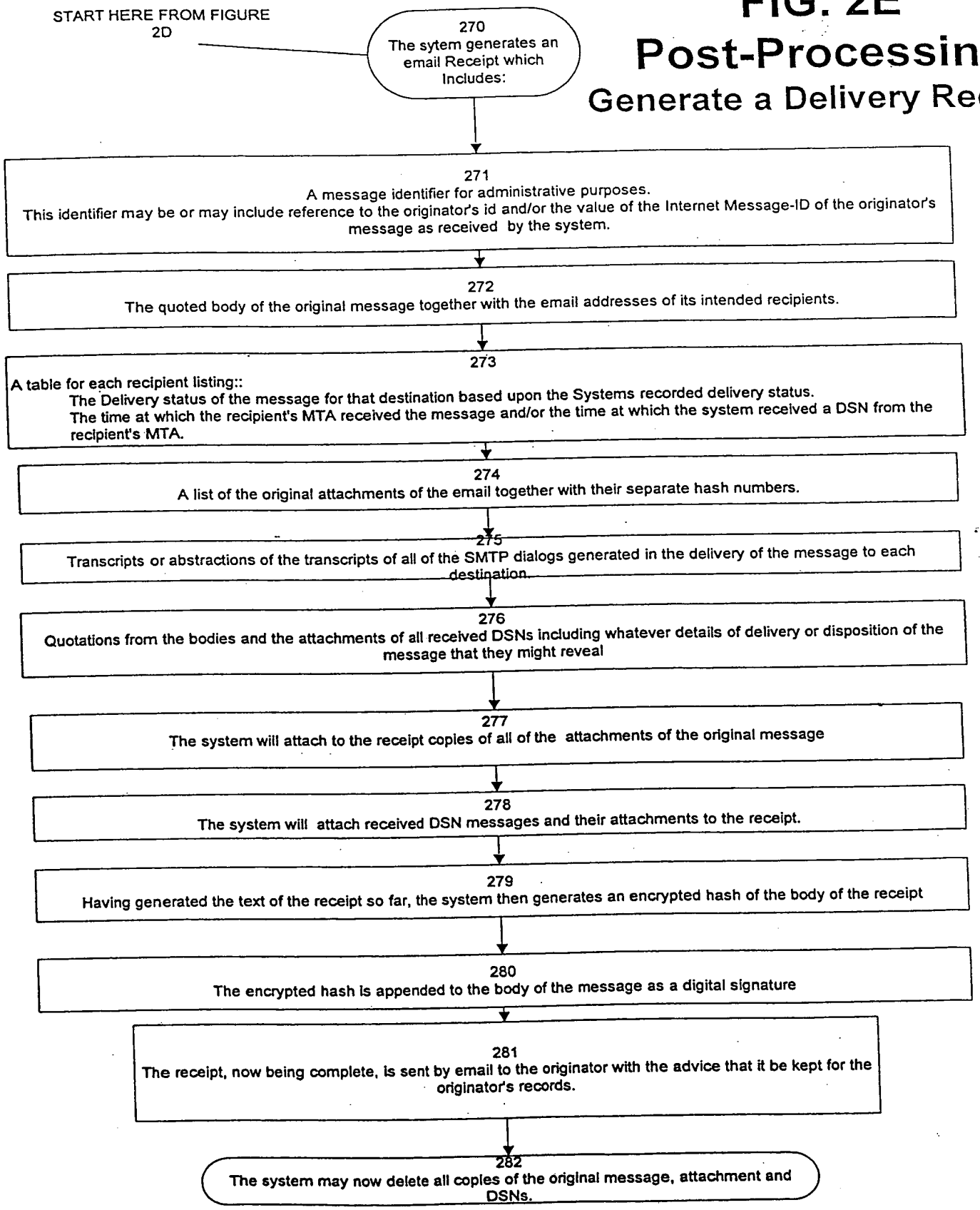
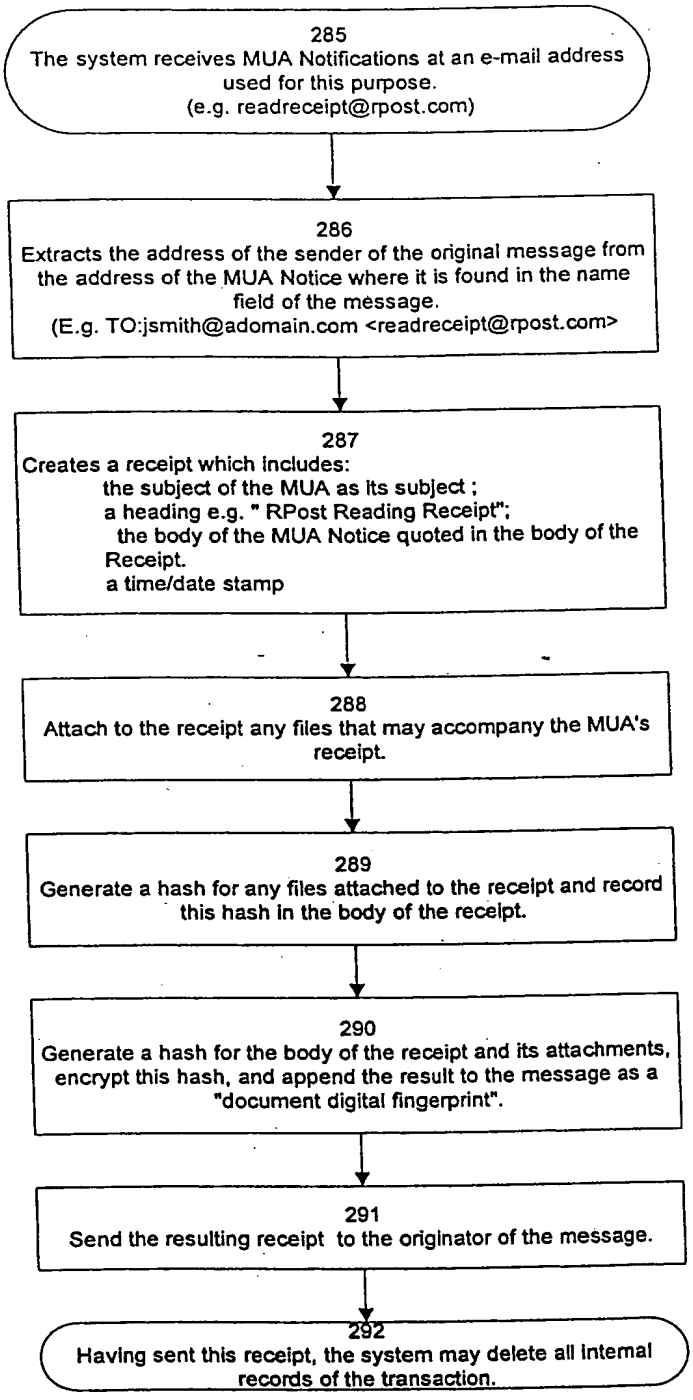


FIG. 2F
Post-Processing
Generate a Reading Notice



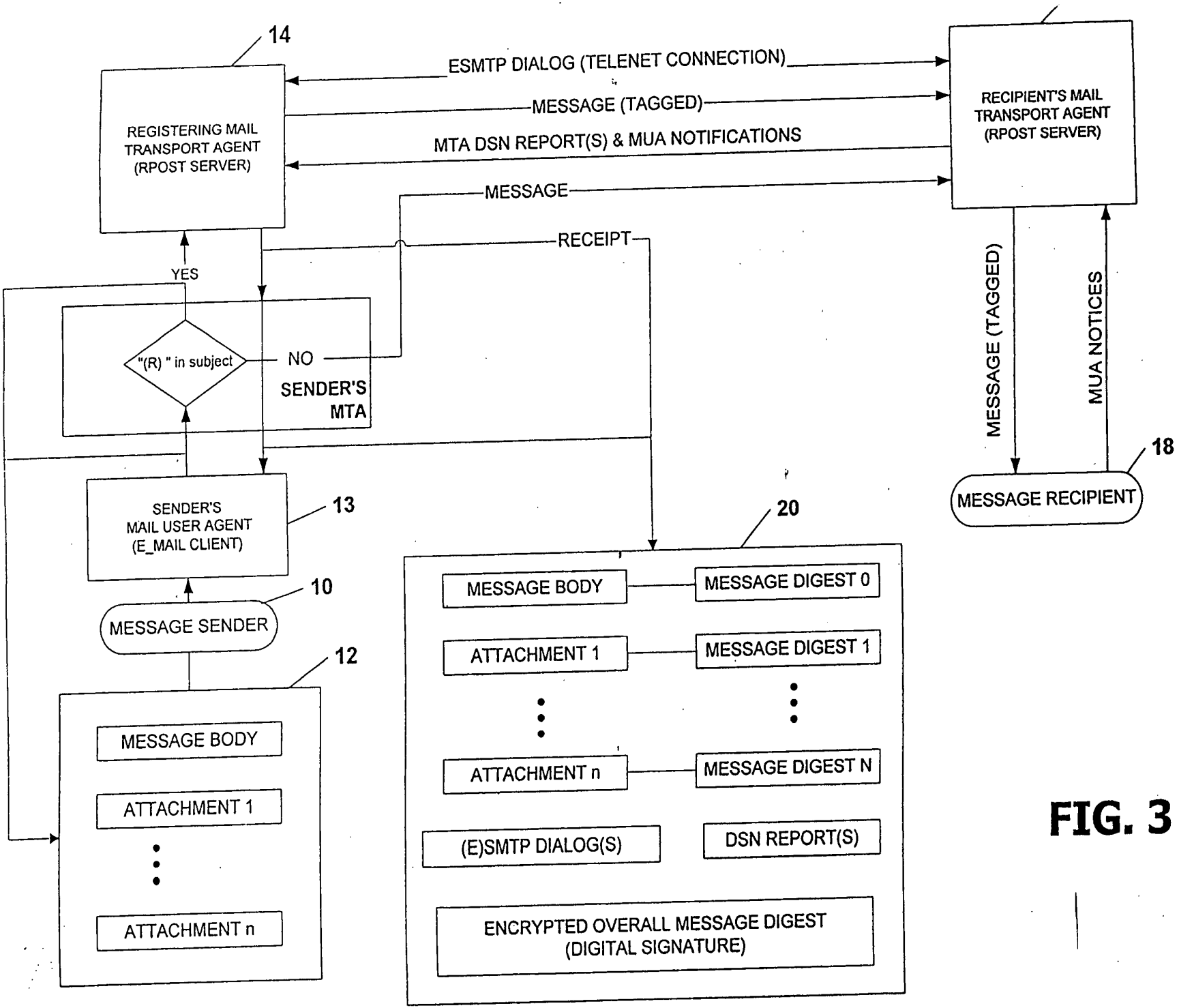

14
REGISTERING MAIL TRANSPORT AGENT (RPOST SERVER)
ESMTP DIALOG (TELENET CONNECTION)
MESSAGE (TAGGED)
MTA DSN REPORT(S) & MUA NOTIFICATIONS
MESSAGE
RECEIPT
RECIPIENT'S MAIL TRANSPORT AGENT (RPOST SERVER)
MESSAGE (TAGGED)
MUA NOTICES
18
MESSAGE RECIPIENT
YES
"(R) " in subject
NO
SENDER'S MTA
SENDER'S MAIL USER AGENT (E_MAIL CLIENT)
13
MESSAGE SENDER
10
12
MESSAGE BODY
ATTACHMENT 1
ATTACHMENT n
20
MESSAGE BODY
MESSAGE DIGEST 0
ATTACHMENT 1
MESSAGE DIGEST 1
ATTACHMENT n
MESSAGE DIGEST N
(E)SMTP DIALOG(S)
DSN REPORT(S)
ENCRYPTED OVERALL MESSAGE DIGEST (DIGITAL SIGNATURE)

FIG. 3

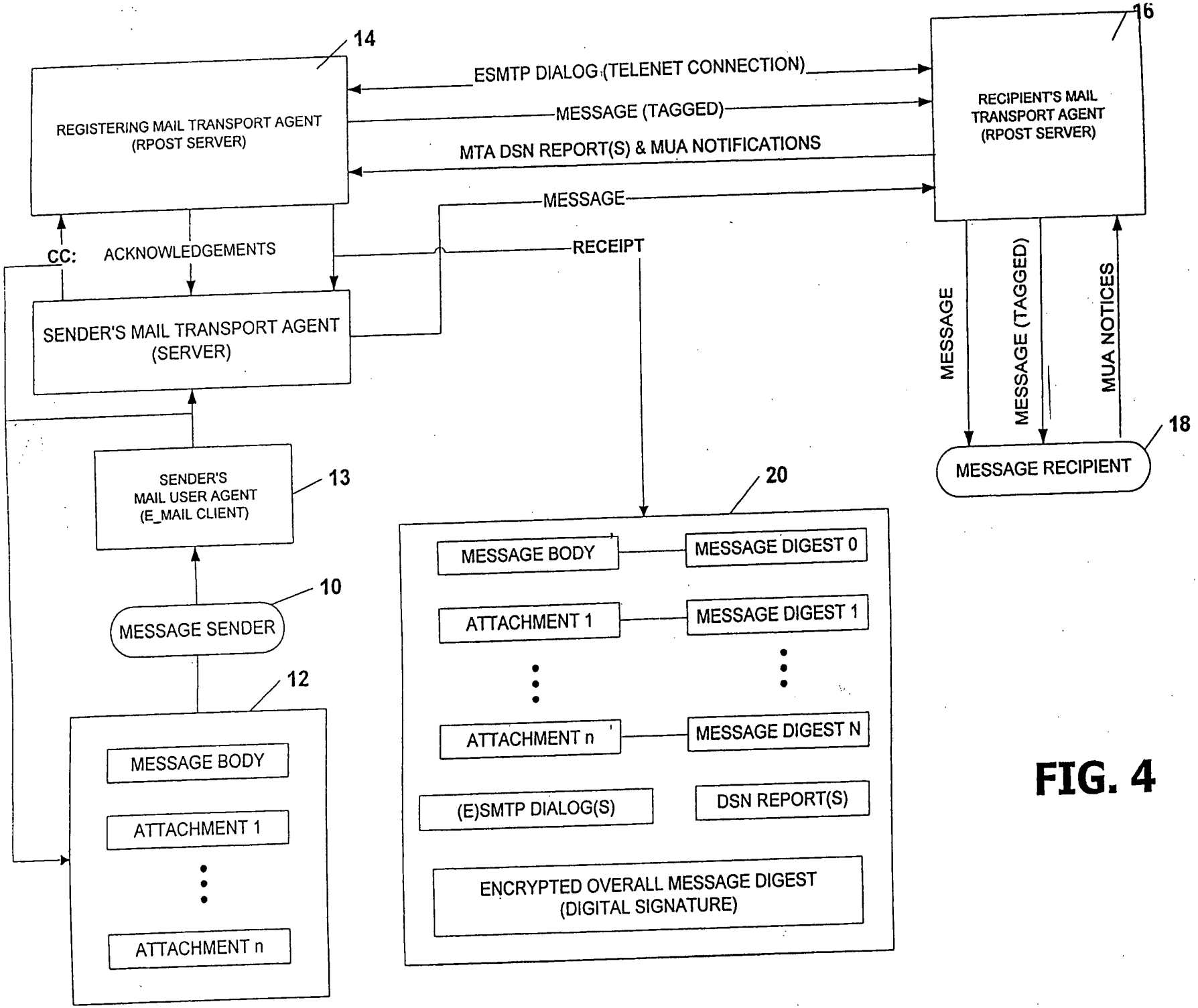

14
REGISTERING MAIL TRANSPORT AGENT
(RPOST SERVER)
ESMTP DIALOG (TELENET CONNECTION)
MESSAGE (TAGGED)
MTA DSN REPORT(S) & MUA NOTIFICATIONS
16
RECIPIENT'S MAIL
TRANSPORT AGENT
(RPOST SERVER)
MESSAGE
CC:
ACKNOWLEDGEMENTS
RECEIPT
SENDER'S MAIL TRANSPORT AGENT
(SERVER)
MESSAGE
MESSAGE (TAGGED)
MUA NOTICES
18
MESSAGE RECIPIENT
SENDER'S
MAIL USER AGENT
(E_MAIL CLIENT)
13
20
MESSAGE BODY
MESSAGE DIGEST 0
ATTACHMENT 1
MESSAGE DIGEST 1
ATTACHMENT n
MESSAGE DIGEST N
10
MESSAGE SENDER
12
MESSAGE BODY
ATTACHMENT 1
ATTACHMENT n
(E)SMTP DIALOG(S)
DSN REPORT(S)
ENCRYPTED OVERALL MESSAGE DIGEST
(DIGITAL SIGNATURE)

FIG. 4

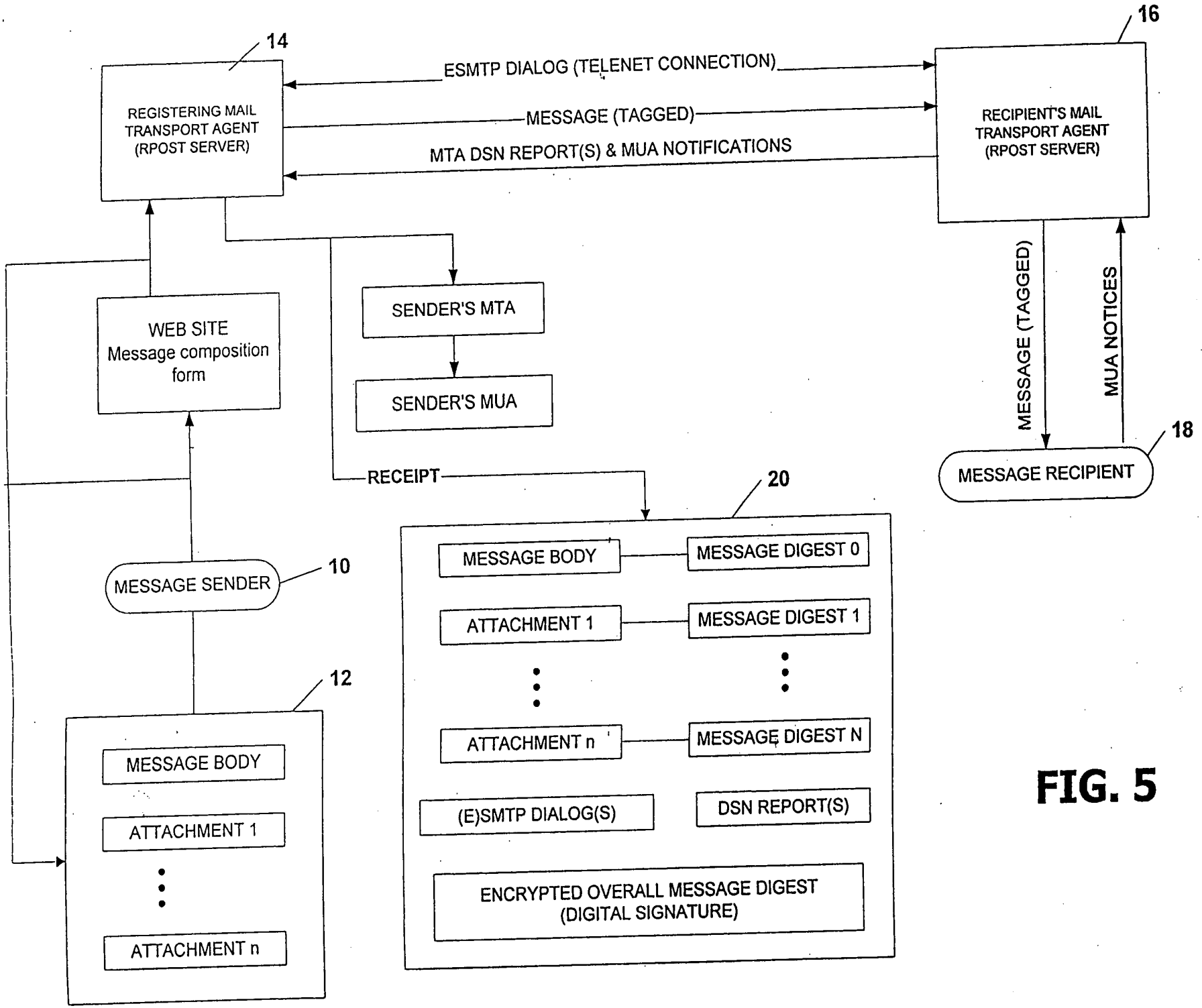

14
16
REGISTERING MAIL TRANSPORT AGENT (RPOST SERVER)
ESMTP DIALOG (TELENET CONNECTION)
MESSAGE (TAGGED)
MTA DSN REPORT(S) & MUA NOTIFICATIONS
RECIPIENT'S MAIL TRANSPORT AGENT (RPOST SERVER)
WEB SITE Message composition form
SENDER'S MTA
SENDER'S MUA
MESSAGE (TAGGED)
MUA NOTICES
18
MESSAGE RECIPIENT
RECEIPT
20
MESSAGE SENDER
10
MESSAGE BODY
MESSAGE DIGEST 0
ATTACHMENT 1
MESSAGE DIGEST 1
ATTACHMENT n
MESSAGE DIGEST N
12
MESSAGE BODY
ATTACHMENT 1
ATTACHMENT n
(E)SMTP DIALOG(S)
DSN REPORT(S)
ENCRYPTED OVERALL MESSAGE DIGEST (DIGITAL SIGNATURE)

FIG. 5

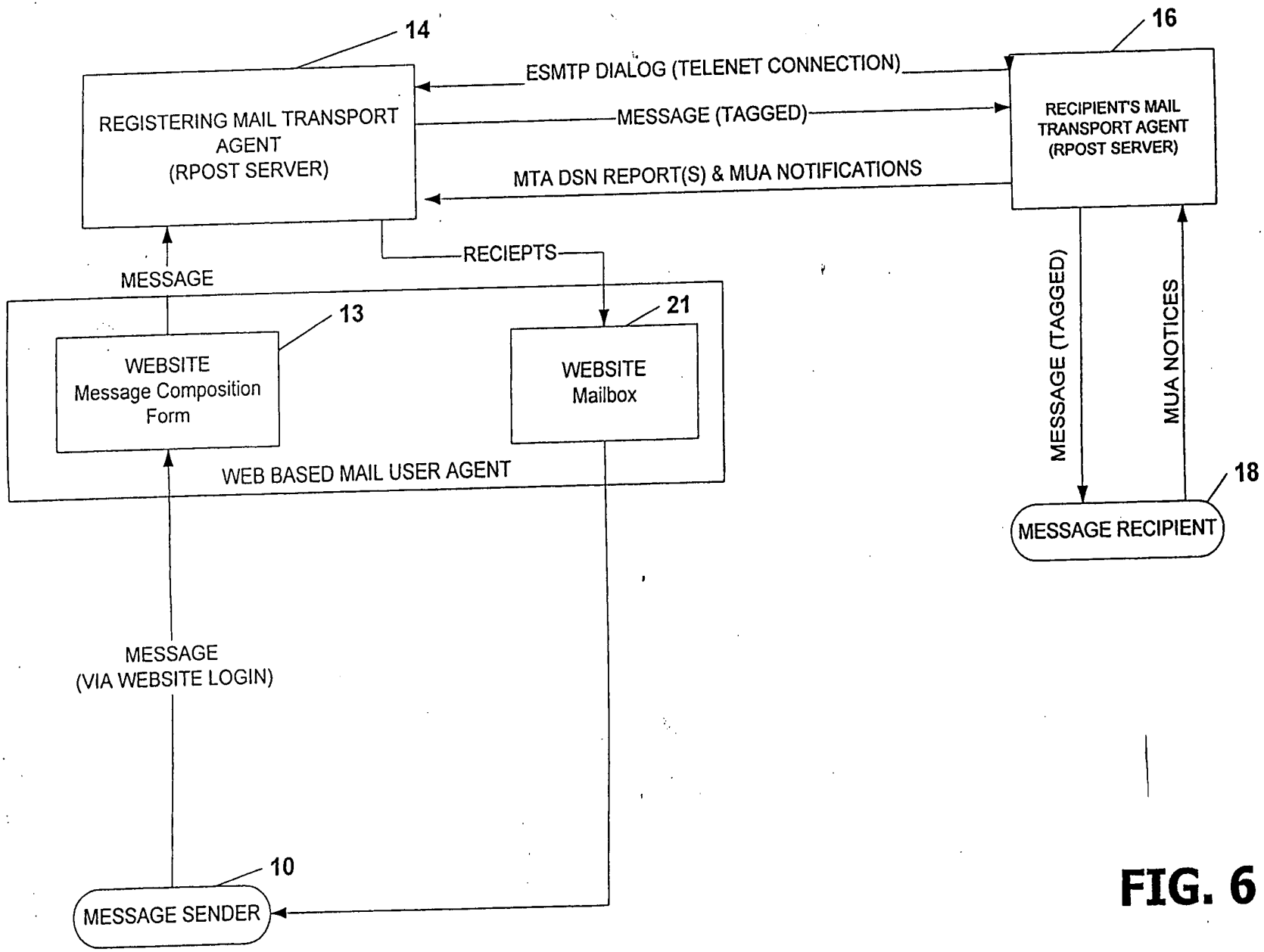
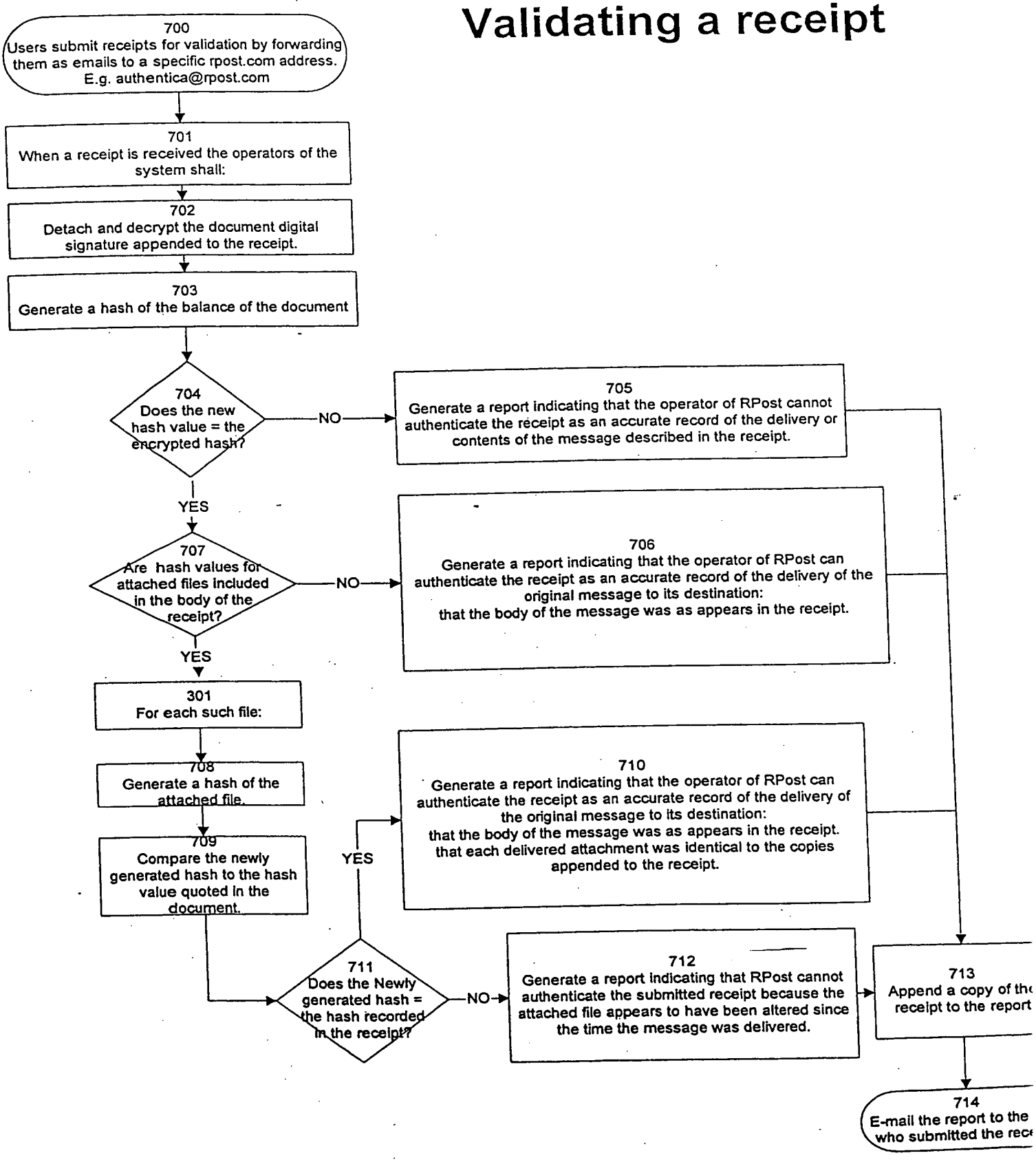

14
16
ESMTP DIALOG (TELENET CONNECTION)
REGISTERING MAIL TRANSPORT AGENT (RPOST SERVER)
MESSAGE (TAGGED)
RECIPIENT'S MAIL TRANSPORT AGENT (RPOST SERVER)
MTA DSN REPORT(S) & MUA NOTIFICATIONS
RECIEPTS
MESSAGE
13
21
WEBSITE Message Composition Form
WEBSITE Mailbox
WEB BASED MAIL USER AGENT
MESSAGE (TAGGED)
MUA NOTICES
18
MESSAGE RECIPIENT
MESSAGE (VIA WEBSITE LOGIN)
10
MESSAGE SENDER

FIG. 6

FIG. 7
Validating a receipt



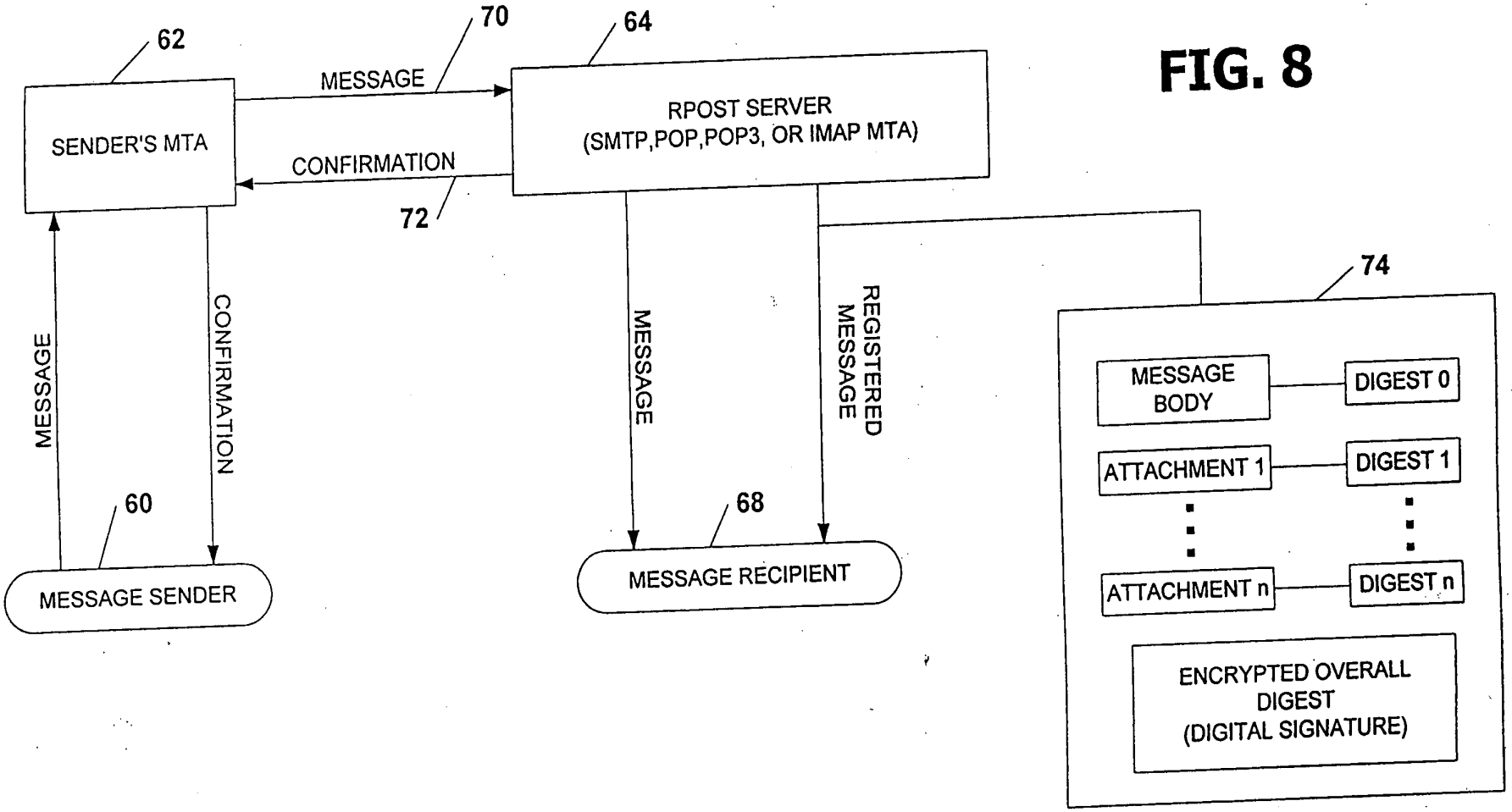

62
70
64
MESSAGE
SENDER'S MTA
RPOST SERVER
(SMTP,POP,POP3, OR IMAP MTA)
CONFIRMATION
72
MESSAGE
CONFIRMATION
MESSAGE
REGISTERED
MESSAGE
74
MESSAGE
BODY
DIGEST 0
ATTACHMENT 1
DIGEST 1
ATTACHMENT n
DIGEST n
ENCRYPTED OVERALL
DIGEST
(DIGITAL SIGNATURE)
60
68
MESSAGE SENDER
MESSAGE RECIPIENT

FIG. 8

FIG. 9
Validating Received Mail

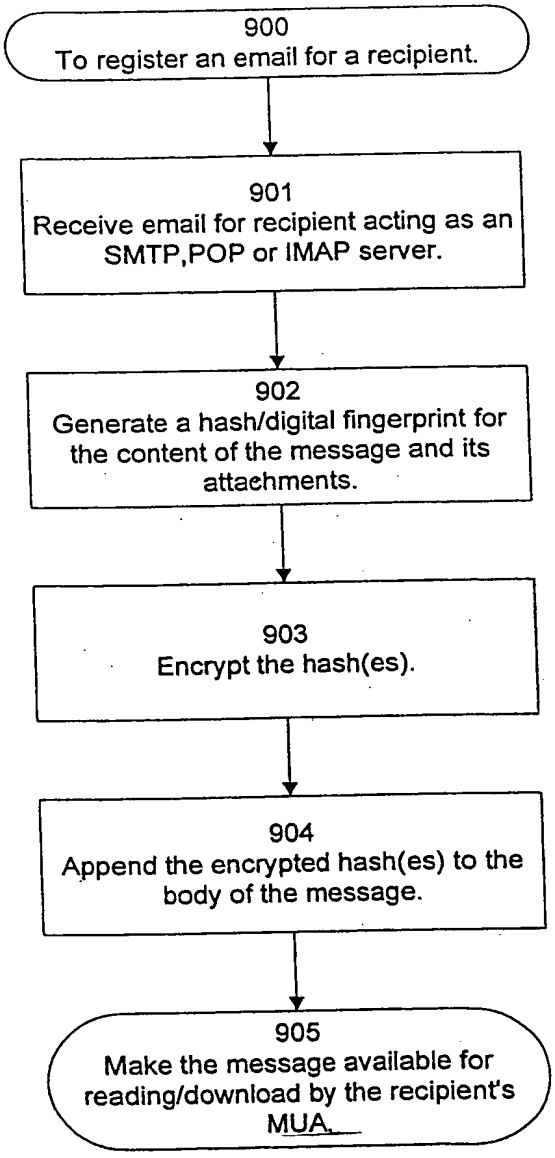


FIG. 10
Registering Inbound Mail

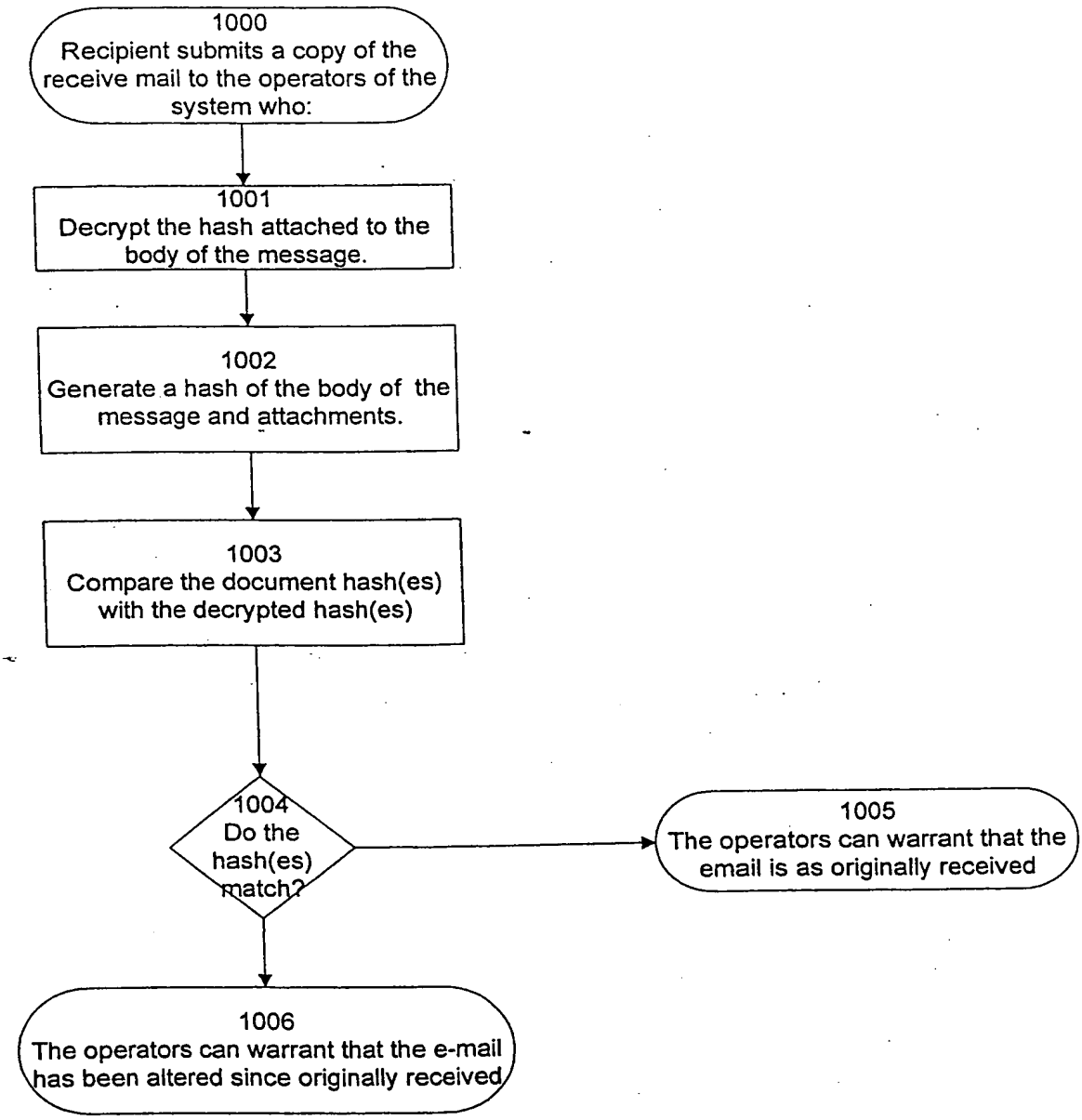
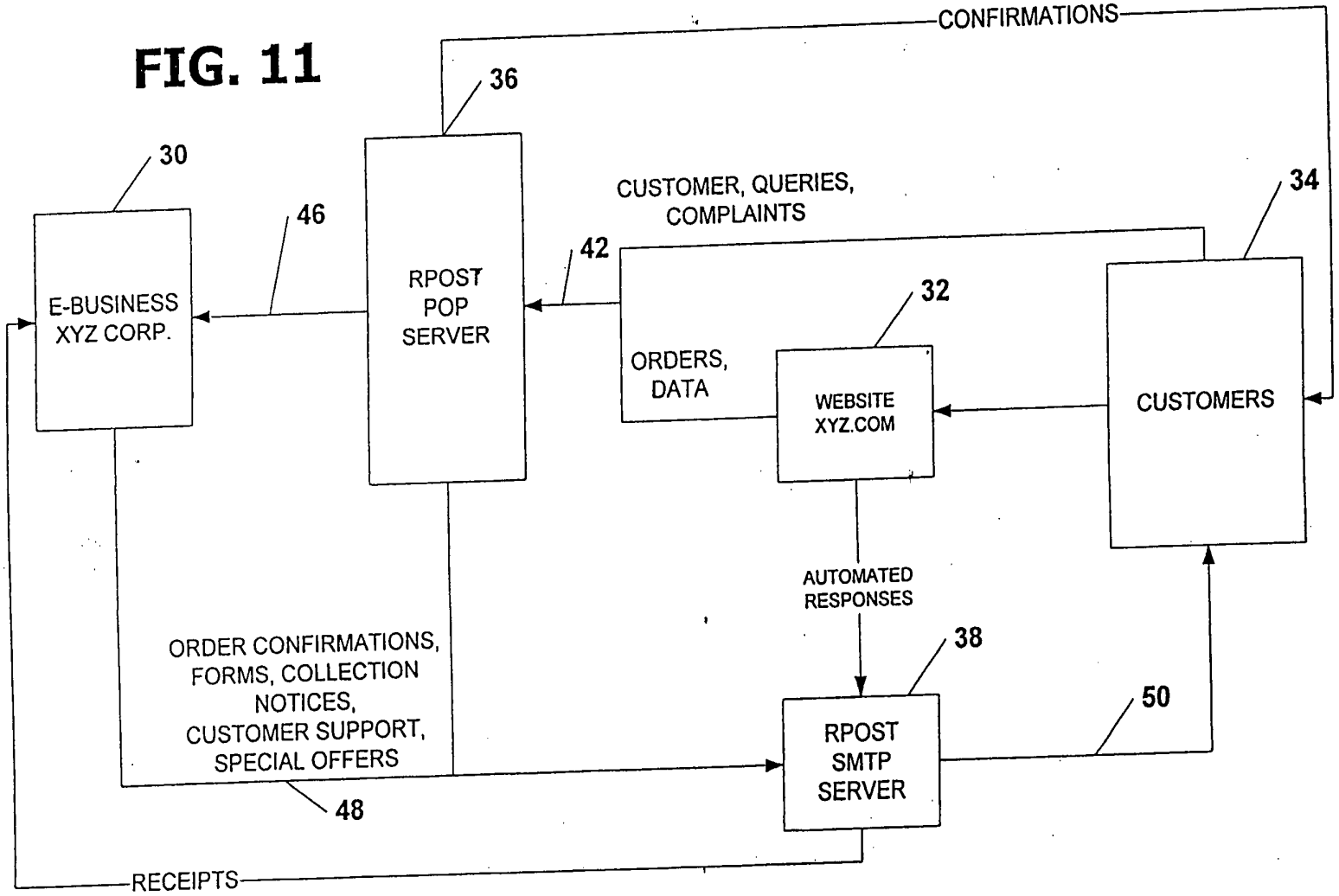


FIG. 11


CONFIRMATIONS
36
30
46
RPOST
POP
SERVER
42
CUSTOMER, QUERIES,
COMPLAINTS
34
E-BUSINESS
XYZ CORP.
32
ORDERS,
DATA
WEBSITE
XYZ.COM
CUSTOMERS
AUTOMATED
RESPONSES
38
ORDER CONFIRMATIONS,
FORMS, COLLECTION
NOTICES,
CUSTOMER SUPPORT,
SPECIAL OFFERS
50
RPOST
SMTP
SERVER
48
RECEIPTS

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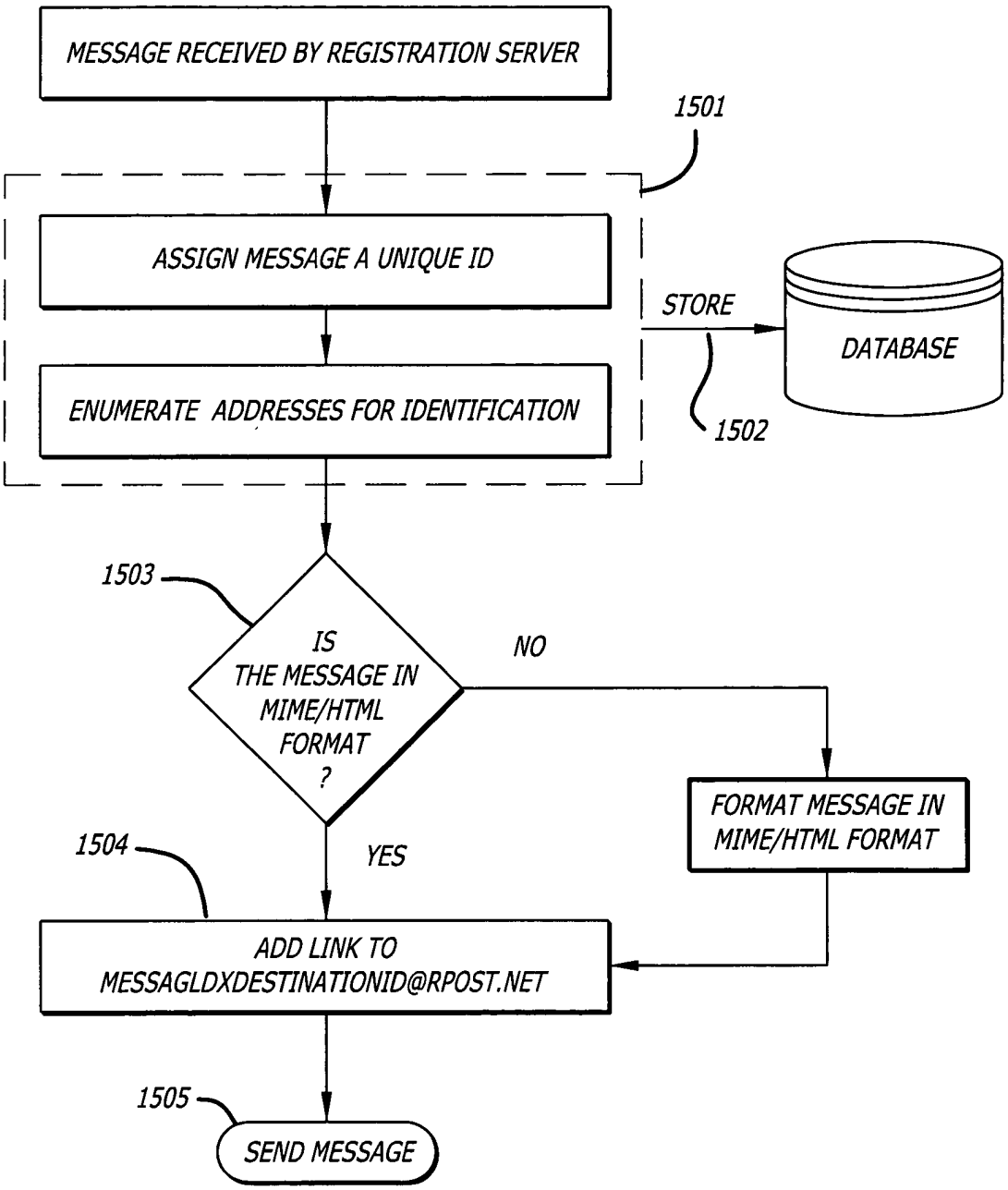
JC19

FIG. 12



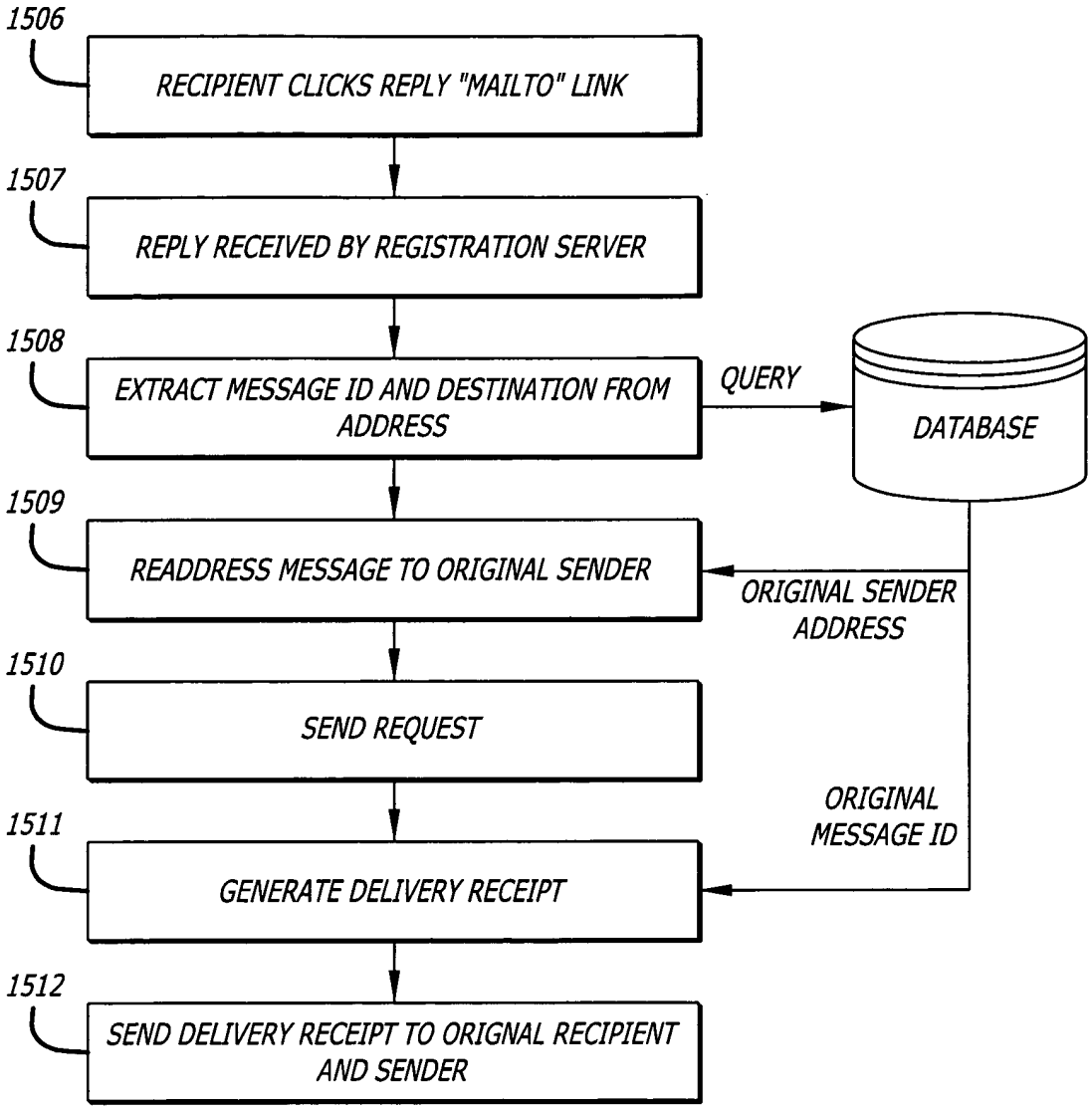

1506
RECIPIENT CLICKS REPLY "MAILTO" LINK
1507
REPLY RECEIVED BY REGISTRATION SERVER
1508
EXTRACT MESSAGE ID AND DESTINATION FROM ADDRESS
QUERY
DATABASE
1509
READDRESS MESSAGE TO ORIGINAL SENDER
ORIGINAL SENDER ADDRESS
1510
SEND REQUEST
ORIGINAL MESSAGE ID
1511
GENERATE DELIVERY RECEIPT
1512
SEND DELIVERY RECEIPT TO ORIGNAL RECIPIENT AND SENDER

FIG. 13